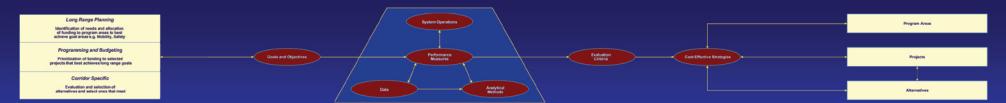
Using Performance Measures to Enhance Planning, Resource Allocation, and Alternatives Analysis

Robert Padgette, Steven Pickrell, and Anita Vandervalk, Cambridge Systematics, Inc.



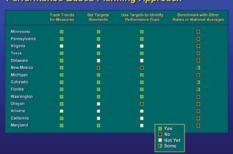
Long-Range Planning

Florida Planning and Program Development Process Florida Transportation Plan (FTP) 26 year Horizon FTP Short Range Component 5 -10 year Horizon Program and Resource Plan Work Program Legislative Budget Request

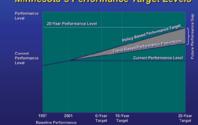
Florida's 2020 Transportation Plan Short-Range Component Performance Measures



Use of Targets and Benchmarks Among States Using Performance-Based Planning Approach

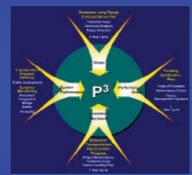


Minnesota's Performance Target Levels



Programming and Budgeting

Montana's Performance Programming Process



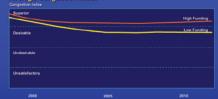
Pavemer

- Objective
 - Preserve highway pavement condition at existing or higher levels on the Interstate, Non-Interstate NHS, and Primary Systems
- Performance measur
 - Ride index a measure of quality (smoothness) of a ride as perceived by the highway user
- Performance target
- Interstate average ride desirable or superior, less than 10 percent of miles below desirable
- Non-interstate average ride desirable or superior, less than 20 percent of miles below desirable
- Primary average ride desirable or superior, less than 20 percent of miles below desirable

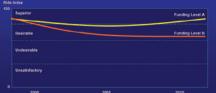
Congestion

- Objective
 - Maintain and improve the congestion levels on the rural portion of the highway system and improve major interchanges and system operations within suburban areas
- Performance measure
- Congestion index on the highway system a measure of travel delay
- Performance target
- Interstate congestion index ≥ 70 (level of service B). Noninterstate NHS – congestion index 55 > (level of service C)
- Primary congestion index 55 ≥ (level of service C)

Average Congestion Index



Average Ride Index



Corridor Specific

AC Transit Oakland-Berkeley-San Leandro Transit Corridor MIS

- Owner the Alameda-Contra Costa Transit District (AC Transit), Oakland,
- Project major Investment Study (MIS) to examine new or improved transit service in the 17-mile
 Berkeley/Oakland/San Leandro.
 Corridor buses carry 40,000 riders a day nearly 20 percent of AC Transit's ridership. The corridor is home to over
- Purpose to define transit needs and market opportunities in the corridor; identify and evaluate potential transit improvements that address needs and opportunities; and build broad public and agency support for a recommended alternative.
- Service objectives and performance evaluation criteria — the AC Transit Board of Directors and the MIS Policy Steering Committee initiated the study by formally adopting nine service objectives. All alternative routes, modal technologies, and service operating plans are to be evaluated according to criteria drawn directly from these service objectives.

Berkeley
Oaklane
San Leandre
Major Incomment Note
Hooks Comments

Rating Table Criteria Related to Service Objectives

Much Beter than Existing Bus Much Worse than Existing Bus

	Transit Service Objectives	Performance Griteria	Enh Bus Telegraph Int'l	BRT Telegraph Int'l	LRT Telegraph Int1
	Improve access to ensployment, education, and other transit	Access to Employment	G	Φ	Ф
		Access to Education	O	Φ	Ф
		Access to Other Transit	G	Φ	Ф
		Travel Time	Ф	0	0
		Connecting Services	O	0	O
)	Improve transit service reliability	Service Reliability	Ф	0	0
)	Provide frequent transit service	Service Frequency	O	0	0
	Ensure security, cleanliness, and comfort for users	Security On-Board	0	Φ	0
		Security At Station	9	Φ	0
		Clean, Comfort On-Board	0	O	0
		Clear, Comfort At Station	G	Φ	Ф
(Support transit-oriented development	Intensified Land Use	G	0	0
	Increase the percentage of trips made by transit	Systemwide Ridership	9	Φ	Ð
		Corridor Ridership	0	Ф	0
	Identify improvements that have a high probability of being funded	Capital Cost	O	0	9
		Operating Cost	O	0	9
		Farebox Recovery	0	0	9
		Cost per Rider	O	0	9
		Cost per New Rider	•	•	•
1)	Improve ease of entry and exit	Ease of Entry and Exit	0	Ф	Ф
	Provide environmentally-friendly transit service	Emissions (Air Quality)	9	Ф	Ф
		Energy Consumption	0	Ф	0

